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a second mirror which is arranged outside said surface-emitting semiconductor element so that said first and second mirrors form a resonator in which said second laser light resonates; and

a modulation unit which modulates said surface-emitting semiconductor element; wherein said second mirror is physically separated from said surface-emitting semiconductor element by an air gap.

B2
11. (Amended) The laser apparatus according to claim 1, wherein said first laser light enters said surface-emitting semiconductor element through said air gap.

12. (Amended) A laser apparatus comprising:
a semiconductor laser element which emits first laser light having a first wavelength;
a surface-emitting semiconductor element which is excited with said first laser light, emits second laser light, and has an active layer and a first mirror arranged on one side of said active layer;

a second mirror which is arranged outside said surface-emitting semiconductor element so that said first and second mirrors form a resonator in which said second laser light resonates; and

a modulation unit which modulates said surface-emitting semiconductor element; wherein said surface-emitting semiconductor element has a pn junction, and said modulation unit modulates the surface-emitting semiconductor element by varying a voltage applied to the pn junction;

wherein said second mirror is physically separated from said surface-emitting semiconductor element by an air gap.
